

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/570835

Confirm. No.:

Filing Date:

3/3/2006

Inventor:

Joachim ARZT et. al.

Title:

**EXTRACORPOREAL ORGAN CONSERVATION** 

Art Unit:

Examiner:

Attorney Docket No.:

06-022

To:

**Commissioner for Patents** 

Mail Stop: PCT P. O. Box 1450

Alexandria, VA 22313-1450

## Information Disclosure Statement for Non-English Language References

An Information Disclosure Statement, PTO Form PTO/SB/08, filed concurrently with this paper, lists four prior art references. Reference 4 is in the English language and requires no further comments.

Reference 1 is an application publication of German Application DE 43 42 728 A1 and discloses a method, equipment, and perfusion solutions for the preservation of isolated organs, in particular, isolated human liver. The perfusion solutions contain a watery fatty emulsion, as well as a perfluorcarbon emulsion for the oxygen supply. FIG. 1 shows a liver (11) submerged in a bath of perfusion solution. Oxygen is supplied to the solution by the oxygen tank (4).

Reference 2 is an application publication of German Application DE 100 15 807 A1, which discloses a method and equipment for preserving the vitality of organs, limbs, and tissue lobes by perfusion. The method uses an extracorporeal circulation system

that includes a perfusate circulation system and a dialysate circulation system. The two systems are coupled by a semipermeable membrane (3). The perfusate circulation system supplies the organs, limbs, tissue lobes with oxygen-rich, arterial perfusate and cleans the venal perfusate. The dialysate coming from the membrane (3) is oxygenated in the dialysate circulation system and cleaned of metabolic waste, and then returned to the membrane (3). According to the invention, the pressure difference between the perfusate circulation system and dialysate circulation system is periodically raised and lowered, such that periodically the pressure between the two circulation systems changes. This promotes an exchange across the membrane (3) and improves the performance of the equipment with regard to preserving vitality.

Reference 3 is an application publication of European Patent Application EP 1 062 870 A2, which discloses a perfusion system for human or animal organs or body parts (14), particularly, the liver. The perfusion system includes equipment for supplying blood to the organs or body parts, and at least one receptacle (10) for the organs or body parts. The receptacle (10) includes an outer sack (11) and an inner sack (13), whereby the inner sack encloses the organ or body part and is then stored in the liquid-filled outer sack (11).

Respectfully submitted,

Date: May 19, 2006

Patricia M. Mathers
Attorney for Applicants

Reg. No. 44,906

Bohan, Mathers & Associates, LLC

n. hunthers

P. O. Box 17707

Portland, ME 04112-8707

Tel: 207 773 3132

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE aperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet 1

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known		
Application Number	10/570,835	
Filing Date	March 3, 2006	
First Named Inventor	Joachim Arzt	
Art Unit		
Examiner Name		
Attorney Docket Number	06-022	

U. S. PATENT DOCUMENTS						
Examiner Cite Document Number nitials* No.1		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant		
		Number-Kind Code <sup>2 (# known)</sup>			Figures Appear	
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-	+			
		US-				
		US-		· · · · · · · · · · · · · · · · · · ·		
		US-				
	<u> </u>	US-				
		US-	<del>                                     </del>			
		US-		· · · · · · · · · · · · · · · · · · ·		
		US-				
		US-				
	<del> </del>	US-	<u> </u>	****		

	FOREIG	N PATENT DOCU	JMENTS		
Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
	Country Code <sup>3 "</sup> Number <sup>4 "</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	∫T <sup>®</sup>
1	DE 43 42 728 A1	06/22/95	Dr. Karl Thomae GmbH		
2	DE 100 15 807 A1	10/11/2001	Mediport Biotechnik Gmbh		
3	EP 1 062 870 A2	12/27/2000	Jostra AG		
<u> </u>					igwdap
				· · ·	
	No.1	Cite No.1  Country Code3 Number 1 Kind Code5 (if known)  DE 43 42 728 A1  DE 100 15 807 A1	Cite No.1         Foreign Patent Document         Publication Date MM-DD-YYYY           1         DE 43 42 728 A1         06/22/95           2         DE 100 15 807 A1         10/11/2001	No.1 Date MM-DD-YYYY  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)  Date MM-DD-YYYY  1 DE 43 42 728 A1  06/22/95 Dr. Karl Thomae GmbH  2 DE 100 15 807 A1  10/11/2001 Mediport Biotechnik Gmbh	Cite No.1  Publication Date MM-DD-YYYY  1 DE 43 42 728 A1  DE 100 15 807 A1  Publication Date MM-DD-YYYY  Publication Date MM-DD-YYYY  Publication Date MM-DD-YYYY  Publication Date MM-DD-YYYY  Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear  Dr. Karl Thomae GmbH  10/11/2001 Mediport Biotechnik Gmbh

Examiner	Date	
Signature	Considered	
- 0		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO			Complete if Known		
0000000				Application Number	10/570,835
INFORMATION DISCLOSURE				E Filing Date	March 3, 2006
STA	STATEMENT BY APPLICANT		First Named Inventor	Joachim Arzt	
	4.			Art Unit	
(Use as many sheets as necessary)		Examiner Name			
Sheet	2	of	2	Attorney Docket Number	06-022

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	-2
	4	Michael R. Schoen; "LIVER TRANSPLANTATION AFTER ORGAN PRESREVATION WITH NORMOTHERMIC EXTRACORPOREAL PERFUSION", Annals of Surgery, Vol, 233, No. 1, 114 - 123, 2001.	
'			
Examiner Signature		Date Considered	

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.